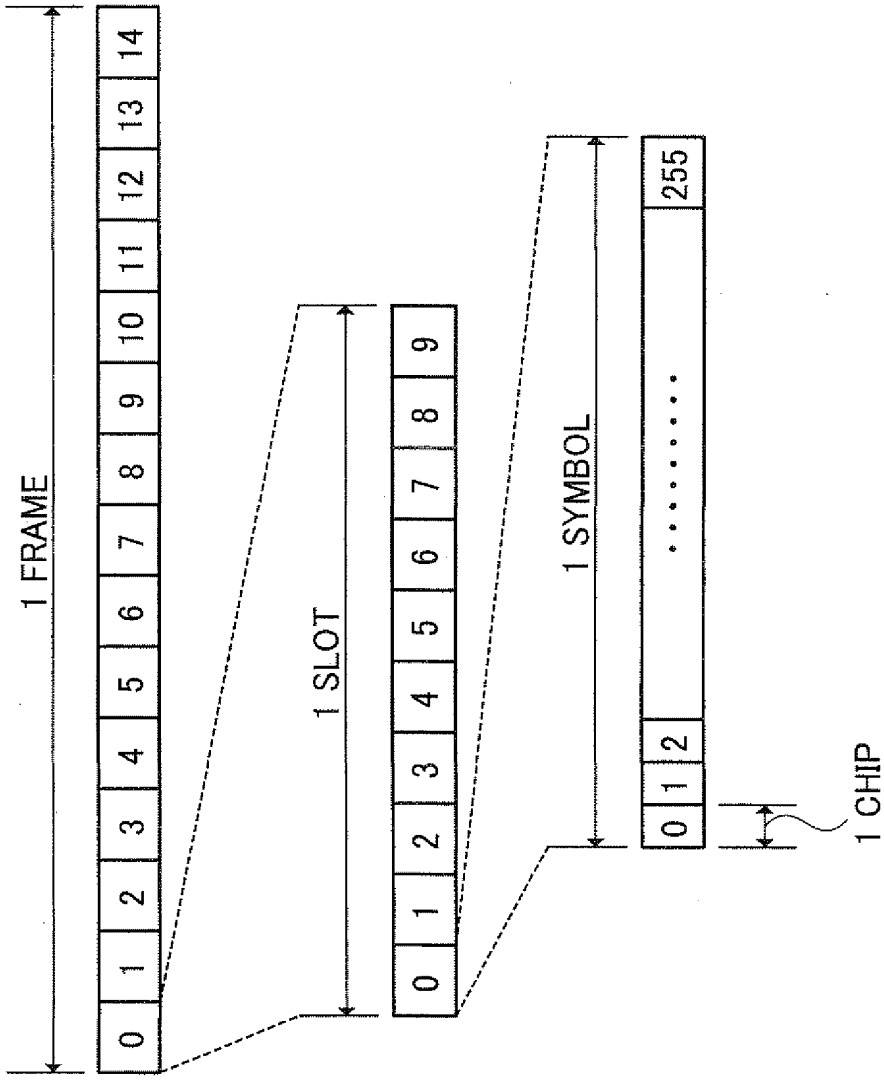

FIG.1
PRIOR ART

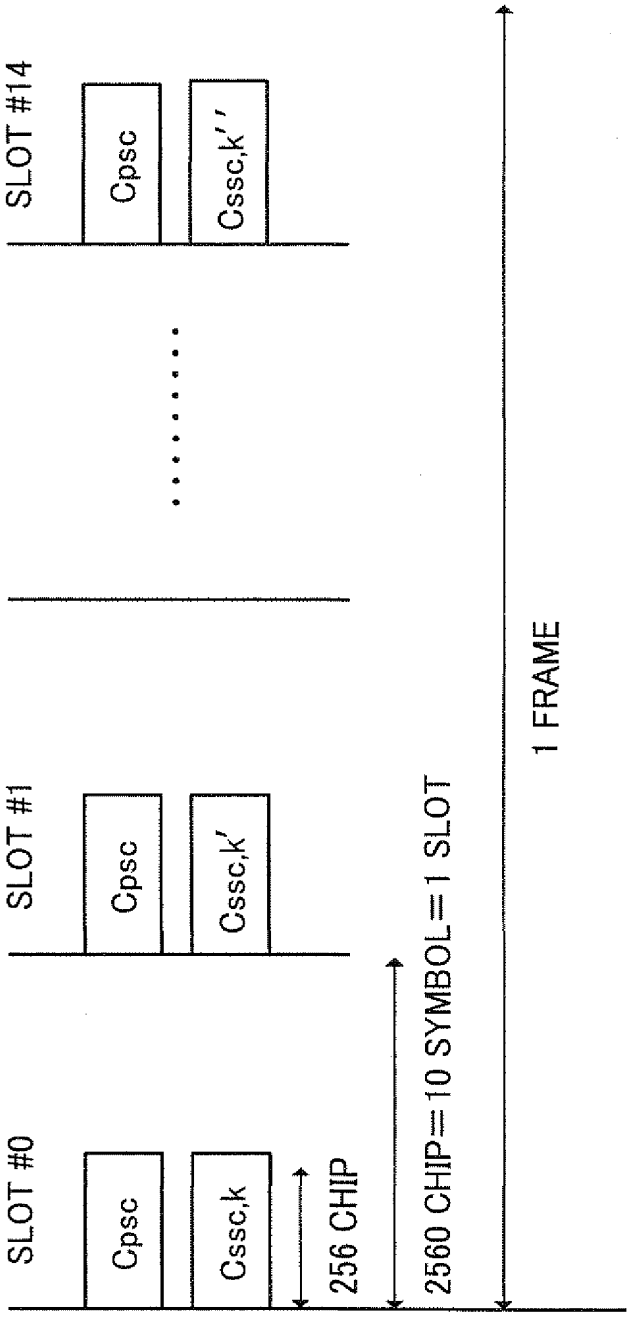

FIG.2
PRIOR ART

$$Cpsc = (1+j) \times <a, a, a, -a, -a, a, -a, -a, a, a, a, -a, a, -a, a, a>$$

$$where\ a = <1, 1, 1, 1, 1, 1, -1, -1, 1, -1, 1, -1, 1, -1, -1, 1>$$

FIG.3A
PRIOR ART

Hadamard sequence

$$H_0 = [1]$$

$$\begin{pmatrix} H_{n-1} & H_{n-1} \\ H_{n-1} & -H_{n-1} \end{pmatrix}$$

$$H_8 = \begin{pmatrix} h_0 \\ h_1 \\ h_2 \\ \vdots \\ h_{255} \end{pmatrix} = \begin{pmatrix} h_0(0) & h_0(1) & \dots h_0(255) \\ h_1(0) & h_1(1) & \dots h_1(255) \\ h_2(0) & h_2(1) & \dots h_2(255) \\ \vdots & & \\ h_{255}(0) & h_{255}(1) & \dots h_{255}(255) \end{pmatrix}$$

$$z = <b, b, b, -b, b, b, -b, -b, b, -b, b, -b, -b, -b, -b, -b>$$

$$b = <1, 1, 1, 1, 1, 1, -1, -1, -1, 1, -1, 1, -1, 1, 1, -1>$$

$$C_{ssc,k} = (1+j) \times \langle hm(0) \times z(0), \dots, hm(255) \times z(255) \rangle$$

$$where\ m = 16 \times (k-1),\ k = 1 \sim 15$$

FIG.3B
PRIOR ART

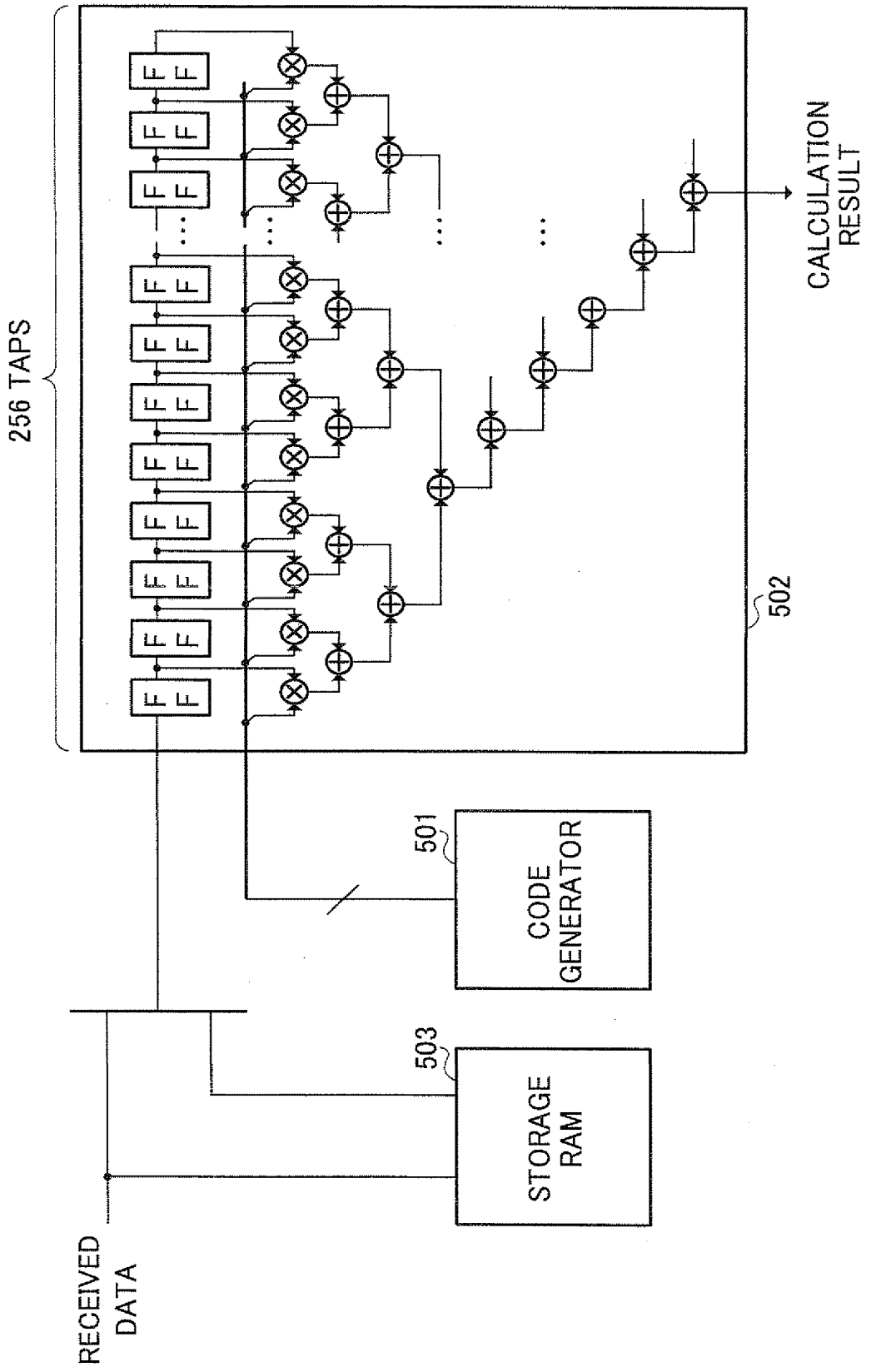

FIG.4
PRIOR ART

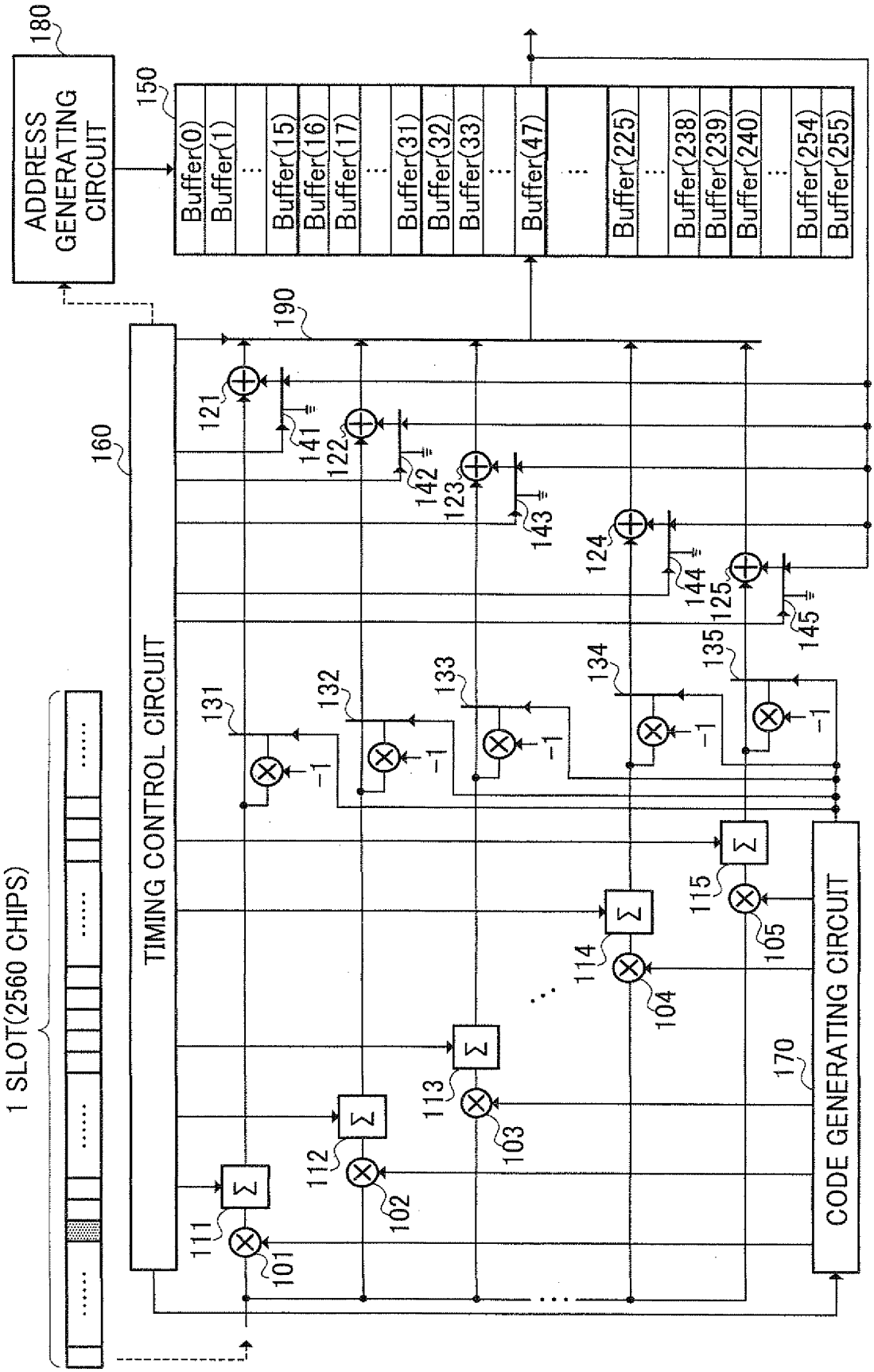

FIG.5
PRIOR ART